## NHL-NP-49-NP.ST25 SEQUENCE LISTING

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Glu Gly Leu Gln Gly Phe Thr Leu Ser Asp Leu Leu Lys Glu Ala Glu 405 410 415

Lys Ile Tyr Asn Lys Arg Glu Thr Pro Glu Glu Arg Glu Glu Arg Leu 420 425 430

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Lys Val Leu Ala Thr Val Val Ala Gln Asn Arg Asp Lys Asp Arg Gly 450 460

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<213> Feline leukemia virus

<220>

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Met Ala Asn Pro Ser Pro Pro Arg Ile Tyr Asn Val Thr Trp Val Ile 35 40 45

Thr Asn Val Gln Thr Asn Thr Gln Ala Asn Ala Thr Ser Met Leu Gly 50 60

Thr Leu Thr Asp Ala Tyr Pro Thr Leu His Val Asp Leu Cys Asp Leu 65 70 75 80

Val Gly Asp Thr Trp Glu Pro Ile Pro Leu Asn Pro Thr Asn Val Lys 85 90 95

His Gly Ala Arg Tyr Ser Ser Ser Lys Tyr Gly Cys Lys Thr Thr Asp  $100 \hspace{1cm} 105 \hspace{1cm} 110$ 

Arg Lys Lys Gln Gln Gln Thr Tyr Pro Phe Tyr Val Cys Pro Gly His 115 120 125

Ala Pro Ser Leu Gly Pro Lys Gly Thr His Cys Gly Gly Ala Gln Asp Page 14 Gly Phe Cys Ala Ala Trp Gly Cys Glu Thr Thr Gly Glu Ala Trp Trp 145 150 155 160 Lys Pro Thr Ser Ser Trp Asp Tyr Ile Thr Val Lys Arg Gly Ser Ser 165 170 175 Gln Asp Asn Ser Cys Glu Gly Lys Cys Asn Pro Leu Val Leu Gln Phe 180 185 190 Thr Gln Lys Gly Arg Gln Ala Ser Trp Asp Gly Pro Lys Met Trp Gly 195 200 205 Leu Arg Leu Tyr Arg Thr Gly Tyr Asp Pro Ile Ala Leu Phe Thr Val 210 215 220 Ser Arg Gln Val Ser Thr Ile Thr Pro Pro Gln Ala Met Gly Pro Asn 225 230 235 240 Leu Val Leu Pro Asp Gln Lys Pro Pro Ser Arg Gln Ser Gln Thr Gly 245 250 255 Ser Lys Val Ala Thr Gln Arg Pro Gln Thr Asn Glu Ser Ala Pro Arg 260 265 270 Ser Val Ala Pro Thr Thr Met Gly Pro Lys Arg Ile Gly Thr Gly Asp 275 280 285 Arg Leu Ile Asn Leu Val Gln Gly Thr Tyr Leu Ala Leu Asn Ala Thr 290 295 300 Asp Pro Asn Lys Thr Lys Asp Cys Trp Leu Cys Leu Val Ser Arg Pro 305 310 315 320 Pro Tyr Tyr Glu Gly Ile Ala Ile Leu Gly Asn Tyr Ser Asn Gln Thr 325 330 335 Asn Pro Pro Pro Ser Cys Leu Ser Thr Pro Gln His Lys Leu Thr Ile 340 350 Ser Glu Val Ser Gly Gln Gly Met Cys Ile Gly Thr Val Pro Lys Thr 355 360 365 His Gln Ala Leu Cys Asn Lys Thr Gln Gln Gly His Thr Gly Ala His 370 380

NHL-NP-49-NP.ST25 Tyr Leu Ala Val Pro Asn Gly Thr Tyr Trp Ala Cys Asn Thr Gly Leu 385 390 400 Thr Pro Cys Ile Ser Met Ala Val Leu Asn Trp Thr Ser Asp Phe Cys Val Leu Ile Glu Leu Trp Pro Arg Val Thr Tyr His Gln Pro Glu Tyr Val Tyr Thr His Phe Ala Lys Ala Val Arg Phe Arg Arg Glu Pro Ile 435 440 445 435 Ser Leu Thr Val Ala Leu Met Leu Gly Gly Leu Thr Val Gly Gly Ile Ala Ala Gly Val Gly Thr Gly Thr Lys Ala Leu Leu Glu Thr Ala Gln Phe Arg Gln Leu Gln Met Ala Met His Thr Asp Ile Gln Ala Leu Glu Glu Ser Val Ser Ala Leu Glu Lys Ser Leu Thr Ser Leu Ser Glu Val Val Leu Gln Asn Arg Arg Gly Leu Asp Ile Leu Phe Leu Gln Glu Gly Gly Leu Cys Ala Ala Leu Lys Glu Glu Cys Cys Phe Tyr Ala Asp His 530 540 Thr Gly Leu Val Arg Asp Asn Met Ala Lys Leu Arg Glu Arg Leu Lys Gln Arg Gln Gln Leu Phe Asp Ser Gln Gln Gly Trp Phe Glu Gly Trp 565 570 575 Phe Asn Lys Ser Pro Trp Leu Thr Thr Leu Ile Ser Ser Ile Met Gly Pro Leu Leu Ile Leu Leu Leu Leu Phe Gly Pro Cys Ile Leu Asn Arg Leu Val Gln Phe Val Lys Asp Arg Ile Ser Val Val Gln Ala Leu Val Leu Thr Gln Gln Tyr Gln Gln Ile Lys Gln Tyr Asp Pro Asp 625 630 635 Arg Pro

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Thr Gln Lys Gly Arg Gln Ala Ser Trp Asp Gly Pro Lys Met Trp Gly 195 200 205 Leu Arg Leu Tyr Arg Thr Gly Tyr Asp Pro Ile Ala Leu Phe Thr Val 210 215 220 Ser Arg Gln Val Ser Thr Ile Thr Pro Pro Gln Ala Met Gly Pro Asn 225 235 240 Leu Val Leu Pro Asp Gln Lys Pro Pro Ser Arg Gln Ser Gln Thr Gly 245 250 255 Ser Lys Val Ala Thr Gln Arg Pro Gln Thr Asn Glu Ser Ala Pro Arg 260 265 270 Ser Val Ala Pro Thr Thr Met Gly Pro Lys Arg Ile Gly Thr Gly Asp 275 280 285 Arg Leu Ile Asn Leu Val Gln Gly Thr Tyr Leu Ala Leu Asn Ala Thr 290 295 300 Asp Pro Asn Lys Thr Lys Asp Cys Trp Leu Cys Leu Val Ser Arg Pro 305 310 315 Pro Tyr Tyr Glu Gly Ile Ala Ile Leu Gly Asn Tyr Ser Asn Gln Thr 325 330 335 Asn Pro Pro Pro Ser Cys Leu Ser Thr Pro Gln His Lys Leu Thr Ile 340 345 350 Ser Glu Val Ser Gly Gln Gly Met Cys Ile Gly Thr Val Pro Lys Thr 355 360 365 His Gln Ala Leu Cys Asn Lys Thr Gln Gln Gly His Thr Gly Ala His 370 375 380 Tyr Leu Ala Val Pro Asn Gly Thr Tyr Trp Ala Cys Asn Thr Gly Leu 385 390 395 400 Thr Pro Cys Ile Ser Met Ala Val Leu Asn Trp Thr Ser Asp Phe Cys 405 410 415 Val Leu Ile Glu Leu Trp Pro Arg Val Thr Tyr His Gln Pro Glu Tyr 420 425 430

# NHL-NP-49-NP.ST25 Val Tyr Thr His Phe Ala Lys Ala Val Arg Phe Arg Glu Pro Ile 435 440 445

Ser Leu Thr Val Ala Leu Met Leu Gly Gly Leu Thr Val Gly Gly Ile 450 460

Ala Ala Gly Val Gly Thr Gly Thr Lys Ala Leu Leu Glu Thr Ala 465 470 475

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